

LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended)

A process for bonding wood base elements to plastic, in particular for production of functional elements, by ~~means of an injection-molding process~~ in which the wood base element is inserted into an injection mold and, at ~~the~~ previously selected sites, plastics melt is injected and irreversibly changes the shape of the wood base element, which comprises

setting ~~the~~ process parameters during the injection-molding process in such a way that the plastics melt forms at least one depression ~~depressions (2a, 15a, 32a, 41)~~ acting as an undercut ~~in the manner of undercuts~~ on the surface of the wood base element ~~(2, 12, 29, 33)~~.

Claim 2 (Currently Amended)

The process as claimed in claim 1, wherein at least one embedment ~~(15, 32, 39)~~ at least substantially running in the direction of the wood fibers is formed in the wood base element ~~(12, 29, 33)~~.

Claim 3 (Currently Amended)

The process as claimed in claim 1, wherein at least one embedment ~~(18, 51)~~ composed of plastic and at least substantially running perpendicularly to the direction of the wood fibers is formed in the wood base element ~~(17, 47)~~.

Claim 4 (Currently Amended)

The process as claimed in any of claims 1 to 3, wherein the plastics embedments ~~(15, 32, 39)~~ and/or the plastics-filled depressions ~~(2a, 15a, 32a, 41)~~ and ~~the like~~ are formed at predetermined sites on the wood base element ~~which have previously been specified during a design process~~.

Claim 5 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 4~~, wherein the plastics melt is injection-molded onto the wood base element in such a way that no injected material visibly protrudes at any outer side.

Claim 6 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 5~~, wherein an ~~the~~ injection pressure ~~in the injection-molding system is selected to be~~ from 10 bar to 2500 bar.

Claim 7 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 6~~, wherein a ~~the~~ mold cavity pressure ~~set~~ is from 50 bar to 1400 bar.

Claim 8 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 7~~, wherein the plastic is a thermoplastic.

Claim 9 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 8~~, wherein the temperature of the plastics melt is ~~selected to be~~ from +130°C to 400°C.

Claim 10 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 7~~, wherein the plastic is a reactive material, ~~such as an elastomer or thermoset~~.

Claim 11 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 7 and 10~~, wherein the temperature of the flowable plastic is selected to be room temperature or higher.

Claim 12 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 11~~, wherein the injection time for the plastic is selected to be in the range from a few tenths of one second to a few seconds.

Claim 13 (Currently Amended)

The process as claimed in claim 1 ~~any of claims 1 to 12~~, wherein the wood base element is made ~~has been produced~~ from balsa, spruce, oak, or beech, or from types of wood having like properties to those ~~whose property profile is within that of~~ these types of wood.

Claim 14 (Currently Amended)

The process as claimed in any of claims 1 to 3 ~~13~~, wherein the linear dimension of the depression(s) and/or embedment(s) is from 1 mm to 2 ~~two~~ or more centimeters.

Claim 15 (Currently Amended)

A wood-plastic composite component which is ~~has been~~ produced by the process as claimed in any one ~~or more~~ of claims 1 to 3 ~~14~~.

Claim 16 (Canceled)

Claim 17 (New)

The process as claimed in claim 10, wherein the plastic is an elastomer.

Claim 18 (New)

The process as claimed in claim 10, wherein the plastic is a thermoset.